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**1** Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2** Automatic high-quality reengineering of database programs by abstraction, transformation and reimplementation
Yossi Cohen, Yishai A. Feldman
July 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 3
Full text available: pdf(245.97 KB) Additional Information: full citation, abstract, references, index terms

Old-generation database models, such as the indexed-sequential, hierarchical, or network models, provide record-level access to their data, with all application logic residing in the hosting program. In contrast, relational databases can perform complex operations, such as filter, aggregation, and join, on multiple records without an external specification of the record-access logic. Programs written for relational databases attempt to move as much of the application logic as possible into the d ...

**Keywords**: Database program reengineering, query graphs, temporal abstraction, the plan calculus

**3** System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2
Full text available: pdf(385.22 KB) Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

4 Persistent storage for a workflow tool implemented in Smalltalk

Bob Beck, Steve Hartley

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a new workflow model and its implementation in Smalltalk. The paper also details problems with using a RDBMS as the persistent store for the workflow tool and the subsequent experiences in using an ODBMS for this purpose. The final solution was a coexistence approach, using the RDBMS for legacy corporate data and the ODBMS for the process description and workflow status data.

5 The graph model of behavior simulator

Rami R. Razouk, Gerald Estrin

February 1977 **Proceedings of the Symposium on Design Automation and Microprocessors**

Full text available: pdf(760.10 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an interactive simulator developed at UCLA as part of the SARA system. This simulator, in conjunction with other design tools of the SARA system, allows the user to model the behavior of the system being designed at various levels of detail. The models which drive the simulator are control graphs and associated data graphs. The simulator uses the control graph to express synchronization of sequences of events. Initiation of any control node triggers the simulator to cal ...

6 Evaluation methods in SARA—the graph model simulator

Rami R. Razouk, Mary Vernon, Gerald Estrin

August 1979 **Proceedings of the 1979 ACM SIGMETRICS conference on Simulation, measurement and modeling of computer systems**, Volume 11 , 8 Issue 1 , 3

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index terms

The supported methodology evolving in the SARA (System ARchitects' Apprentice) system creates a design frame-work on which increasingly powerful analytical tools are to be grafted. Control flow analyses and program verification tools have shown promise. However, in the realm of the complex systems which interest us there is a great deal of research and development to be done before we can count on the use of such powerful tools. We must always be prepared to resort to experiments for evalua ...

7 Towards an integrated toolset for program understanding

John Mylopoulos, Martin Stanley, Kenny Wong, Morris Bernstein, Renato De Mori, Graham Ewart, Kostas Kontogiannis, Ettore Merlo, Hausi Müller, Scott Tilley, Marijana Tomic

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(382.86 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes some early results of a three-year project to develop an integrated toolset for program understanding. The implemented integration architecture involves both

a global repository for all tools serviced by the architecture and a software bus serving communications among tools.

8 Supporting the restructuring of data abstractions through manipulation of a program visualization

Robert W. Bowdidge, William G. Griswold

April 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 2

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms

With a meaning-preserving restructuring tool, a software engineer can change a program's structure to ease future modifications. However, deciding how to restructure the program requires a global understanding of the program's structure, which cannot be derived easily by directly inspecting the source code. We describe a manipulable program visualization—the star diagram—that supports the restructuring task of encapsulating a global data structure. The star diag ...

**Keywords**: meaning-preserving restructuring, semi-automated restructuring, software visualization, star diagram, tool-supported restructuring

9 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(188.65 KB) Additional Information: full citation, abstract, citings, index terms

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

**Keywords**: Declarative query languages, Web-site management

10 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

11 Software evolution: Program representation and behavioural matching for localizing similar code fragments

Kostas Kontogiannis

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available: Additional Information:

pdf(951.82 KB) full citation, abstract, references

Reverse engineering focuses on the development of tools and techniques for understanding unfamiliar code. The main objective in design recovery is to understand program behavior. In order to understand the behavioral aspects of a program, concepts of language semantics and flow analysis can be used. In this paper we consider a program representation method in which communication of a code fragment with the rest of the system represents its behavior. Code fragments are viewed as objects capable o ...

**12** A Survey of Some Theoretical Aspects of Multiprocessing

J. L. Baer

January 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 1

Full text available: pdf(4.05 MB) Additional Information: full citation, references, citings, index terms

**13** AGM: a dataflow database machine

Lubomir Bic, Robert L. Hartmann

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Full text available: pdf(2.69 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In recent years, a number of database machines consisting of large numbers of parallel processing elements have been proposed. Unfortunately, there are two main limitations in database processing that prevent a high degree of parallelism; these are the available I/O bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to guarantee data integrity. The main problem with conventional approaches is the lack of a computational model capable of utilizing th ...

**14** Using weaves for software construction and analysis

Michael M. Gorlick, Rami R. Razouk

May 1991 **Proceedings of the 13th international conference on Software engineering**

Full text available: pdf(1.30 MB) Additional Information: full citation, references, citings

**15** Browsing local and global information

Masum Z. Hasan, Gene Golovchinsky, Emanuel G. Noik, Nipon Charoenkitkarn, Mark Chignell, Alberto O. Mendelzon, David Modjeska

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(651.35 KB) Additional Information: full citation, abstract, references, index terms

Current World Wide Web browsers, e.g., Mosaic and Netscape, support users primarily in the task of browsing the Internet. In some situations, users want to explore topics for which relevant information may reside both on a large local database and on the Web. The MultiSurf project seeks to deal with these situations by integrating text browsing of a local database with hypertext browsing of the Web. In the current implementation, local queries are passed to Web index server(s) for simultaneous s ...

**16** Software assurance by bounded exhaustive testing

Kevin Sullivan, Jinlin Yang, David Coppit, Sarfraz Khurshid, Daniel Jackson

July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 29 Issue 4

Full text available: pdf(202.97 KB) Additional Information: full citation, abstract, references, index terms

The contribution of this paper is an experiment that shows the potential value of a combination of selective reverse engineering to formal specifications and bounded exhaustive testing to improve the assurance levels of complex software. A key problem is to scale up test input generation so that meaningful results can be obtained. We present an approach, using Alloy and TestEra for test input generation, which we evaluate by experimental application to the Galileo dynamic fault tree analysis too ...

**Keywords**: TestEra, automated test case generation, bounded exhaustive testing, formal methods, reverse engineering, specification-based testing

**17** Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

**18** Integrating SHriMP with the IBM websphere studio workbench
Derek Rayside, Martin Litoiu, Margaret-Anne Storey, Casey Best
November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(857.49 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper provides an experience report for researchers who are interested in integrating their tools with the new IBM WebSphere Studio Workbench. The Workbench (open source at www.eclipse.org) provides an open framework for building integrated development environments. We report on our experience integrating an information visualization tool (called SHriMP Views) with the IBM Workbench. Although SHriMP was originally developed for visualizing programs, it is content independent. We have re-tar ...

**Keywords**: MOF, XMI, flow diagrams, integration, software engineering, software visualization, system modeling

**19** Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

**20** Transitive closure algorithms based on graph traversal
Yannis Ioannidis, Raghu Ramakrishnan, Linda Winger
September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3

Full text available: pdf(4.34 MB) Additional Information: full citation, abstract, references, citings, index terms

Several graph-based algorithms have been proposed in the literature to compute the transitive closure of a directed graph. We develop two new algorithms (Basic_TC and Gobal_DFTC) and compare the performance of their implementations in a disk-based environment with a well-known graph-based algorithm proposed by Schmitz. Our

algorithms use depth-first search to traverse a graph and a technique called marking to avoid processing some of the arcs in the graph. They compute the ...

**Keywords**: depth-first search, node reachability, path computations, transitive closure

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